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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	645	(2)	Press
B.P. No.			Mis.
Dated	13	3	1876

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
13th March 1876.*

Read the following :—

No. 262.

No. 168.

Note by the Chief Engineer for Irrigation.

THE following estimates from the Chingleput Range are forwarded by the
No. 3,309, dated 8th November 1875. Superintending Engineer, Chingleput,
with his letter marginally noted :—

Taluq.	Estimate No. 187 .	Work.	Amount.
Madaranticum ...	...	Poragal Tank ...	RS. 945
Do. ...	...	Chittamore Tank ...	1,865
Do. ...	...	Keelmaroovathoor Tank ...	945
Do. ...	...	Kalanipakam Tank ...	295
Do. ...	...	Ollambakam Tank ...	140

2. The financial and hydraulic details of the Irrigation works concerned are exhibited in the following statement :—

I.—Financial Details.

Name of Work.	Ayacut Area.	Assessment.	Average Revenue for 5 years.	Highest Revenue for 5 years.	Expenditure during previous 4 years.	AMOUNT OF ESTIMATE.		
						Capital.	Revenue.	Total.
Poragal Tank ...	ACRES. 89	RS. 462	RS. 302	RS. 403	RS. 103	RS. 200	RS. 745	RS. 945
Chittamore Tank ...	187	838	634	793	...	...	1,865	1,865
Keelmaroovathoor Tank ...	100	412	417	493	...	...	945	945
Kalanipakam Tank ...	43	161	75	90	...	...	295	295
Ollambakam Tank ...	25	140	47	67	...	...	140	140

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	MAXIMUM SUPPLY.		LENGTH OF ESCAPE.		AVERAGE HEIGHT OF BUND.		Surplus discharged at M.T.L. per Sec.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Poragal Tank ...	SQ. M. 1.23	C. FT. 652	C. FT. ...	FT. E 30	FT. 30	FT. 2.5	FT. 1	C. FT. 123.4	Not stated.
Chittamore Tank ...	2.5	1,036	...	E 108	108	4	2.5	333.2	...
Keelmaroovathoor Tank ...	1	562	...	E 115	115	4	2	723.5	1
Kalanipakam Tank ...	.5	354	...	E 62.5	62.5	4	2	296.9	...
Ollambakam Tank ...	.5	354	...	E 60	60	3	1.5	185.1	...
				E 21	21	3	1.5	86.4	...
				E 60	60	3	1.5	185.2	...

NOTE.—The proposed dimensions of escapes and heights of bund are printed in large type. The existing dimensions in small type. The following abbreviations are used :—C.—Calingulali with dam stones. W.—Weir with flash crest. E.—Escape at ground level. B.—Bund of tank.

3. The following is a summary of the work proposed to be carried out :—

Poragal Tank.—This tank was breached by the cyclone of 1874. The estimate provides for closing breach, raising and sectioning the bund, extending the

Proceedings of the Madras Government, Public Works Department,
13th March 1876.

existing cut, repairing the sluice, turfing and planting tank grass, and for constructing a sluice, and a loose stone escape.

Chittamore Tank.—This tank is reported to be in a bad condition. The estimate provides for sectioning the bund, closing the existing escape, and opening a new escape 115 feet in length, repacking the stone revetment, turfing and planting kus-kuss grass, repairing and remodelling the head of one of the sluices, repairing the small sluice, and constructing a rough stone escape.

Keelmaroovathoor Tank.—This tank was badly eroded by the cyclone of 1874. The estimate provides for sectioning the bund, turfing, planting tank grass, repairing three sluices, and constructing a rough stone escape.

Kalanipakam Tank.—This tank was breached and badly eroded by the cyclone of 1874. The estimate provides for closing the breach, sectioning the bund, planting tank grass, and repairing the sluice.

Ollambakam Tank.—This tank was breached by the cyclone of 1874. The estimate provides for closing the breach, sectioning the bund, turfing, planting tank grass, and improving the sluice.

4. The following statement shows the proposed distribution of the outlay recommended for sanction, to the debit of the several Agricultural heads of account involved:—

		Several Agricultural heads of account involved:			
Name of Tank.	Nature of Work.	HEADS OF ACCOUNT.			Total for each Tank. Rs.
		Capital Ordinary.	REVENUE.		
			Extensions and Improvements	Repairs.	
Poragal Tank ...		Rs.	Rs.	Rs.	Rs.
		...	...	1-0	
Chittamore Tank ...		200	265	...	
		...	...	...	915
Keelmaroovathoor Tank...		...	420	1,415	
		...	...	...	1,835
Kalanipakam Tank ...		...	155	790	
		...	...	...	945
Ollambakam Tank ...		...	49	245	
		...	...	...	295
		...	26	114	
		...	...	...	140

5. From the detail of surplus disbursements in paragraph 2.

5. From the detail of surplus discharges in the ninth column of Statement II of paragraph 2, it would appear that the lengths of the escapes proposed to be constructed are insufficient. The provision of surplus works should be as a minimum for—

Poragal Tank	150 feet.
Chittamore Tank	160 "
Keelmaroovathoor Tank	160 "
Kalanipakam Tank	160 "
Ollambakam Tank	160 "

and the additions should be regulated accordingly.

FORT ST. GEORGE,
29th February 1876.

(Signed)

A. DE C. SCOTT, Major, R.E.,
Deputy Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

Proceedings of the Madras Government, Public Works Department,
13th March 1876.

No. 169.

ORDER THEREON, 13th March 1876, No. 645.

IRRIGATION, No. 16.

Account.

No. 262, dated 29th February 1876.

THE following estimates for Irrigation Works in the Chingleput Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted are sanctioned:—

Name of Work.	Provision of Estimate.	Fund.	Amount.	Irrigation Register No.
			Rs.	
Poragal Tank	Repairing bund ...	Revenue Repairs ...	480	45 I of 1875-76.
	Rough stone escape ...	Revenue Extensions and Improvements.	265	
Chittamore Tank	Irrigation sluice ...	Capital Ordinary ...	200	46 I of "
	Repairing bund ...	Revenue Repairs ...	1,415	
Keelmaroovathoor Tank	Rough stone escape ...	Revenue Extensions and Improvements.	420	47 I of "
	Repairing bund ...	Revenue Repairs ...	790	
Kalanipakam Tank	Rough stone escape ...	Revenue Extensions and Improvements.	155	48 I of "
	Repairing bund ...	Revenue Repairs ...	245	
Ollambakam Tank	Building a pot pipe into concrete ...	Revenue Extensions and Improvements.	49	49 I of "
	Repairing bund ...	Revenue Repairs ...	114	
	Building a pot pipe into concrete ...	Revenue Extensions and Improvements.	26	

2. These sanctions are registered as entered above.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the District Engineer, Chingleput.
" Collector of
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.

Exd. E. C. Shunker.
Spare Copies

Fort St. George 29th February 1876.

No 262

Note by the Chief Engineer for Irrigation.

No. 3309

Dated 8th Nov 1875.

The following Estimates from the Chingleput Range are forwarded
by the Superintending Engineer, Chingleput, with his letter
marginally noted:—

Taluq.	Estimate No.	Work.	Amount. Rs.
	187		
		Madurantiam — Potugal Tank	945
		— Do — Chittamore Tank	1865
		— Do — Keshmarovathoor Tank	2945
		— Do — Kalanipakam Tank	295
		— Do — Allambakam Tank	140

2. The Financial and Hydraulic details of the Irrigation works concerned
are exhibited in the following statement:—

I.—Financial Details.

Name of Work.	Ayacut Area. Acres.	Assessment. Rs.	Average Revenue for 5 years. Rs.	Highest Revenue for 5 years. Rs.	Expenditure dur- ing previous 4 years. Rs.	Amount of Estimate.		
						Capital. Rs.	Revenue. Rs.	Total. Rs.
Potugal Tank	89	462	362	408	103	200	745	945
Chittamore Tank	107	830	634	793	nil		1865	1865
Keshmarovathoor Tank	100	412	447	495	do		945	945
Kalanipakam Tank	48	161	75	90	do		295	295
Allambakam Tank	25	440	47	67	do		140	140

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.		Maximum Supply.		Length of Escape.		Average Height of Bund.		Surplus discharged at M. T. L. per Sec.	Tanks above.
	Sq. M.	C. ft.	C. ft.	Ft.	Ft.	Ft.	Ft.			
								Catchment per Second		
Poragudi Tank.	1.25	652	nil	E 30	30	2.5	1	123.4	not stated	
Chittamare Tank.	2.5	1086	do	E 30	30	1	2	190	1	
Kelmaravathoor Tank.	1	562	do	E 12	12	4	2	76	nil	
Kalanipattam Tank.	.5	354	do	nil	nil	3	1.5	0.0	nil	
Ollambakam Tank.	.5	354	do	E 21	21	3	1.5	86.4	nil	

NOTE.—The proposed dimensions of escapes and heights of bund are entered in red. The existing dimensions in black. In the MS. the entries in red denote proposed dimensions. The following abbreviations are used:—C.—Calingulah with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank.

3 The following is a summary of the work proposed to be carried out.

Poragudi Tank. This tank was breached by the cyclone of 1874. The estimate provides for closing breach, raising and sectioning the bund, extending the existing cut, repairing the sluice, turfing and planting tank grass, and for constructing a sluice and a lower stone escape.

Chittamare.

Chittamare Tank. This tank is reported to be in a bad condition. The estimate provides for sectioning the bund, closing the existing escape, and opening a new escape 115 feet in length, repacking the stone revetment, turfing, and planting knistures grass, repairing and re-modelling the head of one of the sluices; repairing the small sluice, and constructing a rough stone escape.

Kelmaravathoor Tank. This tank was badly eroded by the cyclone of 1874. The estimate provides for sectioning the bund, turfing, planting tank grass, repairing three sluices, and constructing a rough stone escape.

Kalanipattam Tank. This tank was breached and badly eroded by the cyclone of 1874. The estimate provides for closing the breach, sectioning the bund, planting tank grass, and repairing the sluice.

Ollambakam

Ollambakam Tank. This tank was breached by the cyclone of 1874. The estimate provides for closing the breach, sectioning the bund, turping, planting tank grass, and improving the sluice.

The following statement shows the proposed distribution of the outlay recommended for sanction, to the debit of the several Agricultural heads of account involved.

Name of Tank	Nature of Work	Heads of Account				
		Capital	Primary	Recurrent	Improvements	Repairs
Peragul Tank	Raising & strengthening the bund					480
	Constructing a rough stone escape					265
	Do - a sluice		200			
	Total					945
Chittamare Tank	Repairing and strengthening the bund					1465
	Constructing a rough stone escape					420
	Total					1885
Keelmaravathoo Tank	Repairing the bund					790
	Constructing a rough stone escape					155
	Total					945

Name of Tank	Nature of Work	Heads of Account				
		Capital	Primary	Recurrent	Improvements	Repairs
Kalanipakam Tank	Repairing the bund					246
	Building a pot					
	pipe into concrete					19
Total						295
Ollambakam Tank	Repairing the bund					114
	Building a pot					
	pipe into concrete					26
Total						140

5 From the detail of surplus discharges in the ninth column of Statement II of para 2, it would appear that the lengths of the escapes proposed to be constructed are insufficient. The provision of surplus works should be as a minimum for

Peragul Tank	150 feet.
Chittamare	160 "
Keelmaravathoo	100 "
Kalanipakam	100 "
Ollambakam	100 "

and the additions should be regulated accordingly.

Ans. Secy.

Major R. S. Secy. Chief Engr. for Irrigation
for Chief Engr. for Irrigation

P. W. 1876 Sept

No 1692

Jane

The Chief Engr
for Irrigation

Dated 29 Feb
Recd 7 March 1876

No. 262.

E. J.

Note on Estimates
for Irrigation works
in the Chingleput
Dist.

Per 13 March 76 B.V. 168

No 645 P. W. Dept

Proceedings of the Madras Govt.
Under date the 13 March 76.
Read the following

From
The Chief Engineer for } (No. 262 of 29 Feb/76.
Irrigation) The following

estimates for Irrigation
works in the Chingleput
Range, Chingleput
District, forwarded by the
Chief Engineer for Irrigation
with his memorandum
marginally noted are
sanctioned.

No. 262 of 29 Feb/76.

Name of work	Provision of estimate	Fixed amount	Irrigation District
Podigut Tank	Repairing bund - Revenue Repair	4 50	45 20 1/2
	Rough stone escape - { Revenue Extension & Improvements	2 65	
	Irrigation sluice - Capital Ordinary	200.	
Chittamore Tank	Repairing bund - Revenue Repair	14 45	46 2 1/2
	Rough stone escape - { Revenue Extension & Improvements	4 20.	
Kilmarova - thoot Tank.	Repairing bund - Revenue Repair	7 90	47 1/2
	Rough stone escape - { Revenue Extension & Improvements	1 55	
Kalanipatam Tank -	Repairing bund - Revenue Repair	2 46	48 1/2
	Building a pot pipe into concrete - { Revenue Extension & Improvements	4 9	
Allambakam Tank -	Repairing bund - Revenue Repair	11 4	49 1/2
	Building a pot pipe into concrete - { Revenue Extension & Improvements	2 6	

Three

2. These sanctions
are registered as
entered above.

Chap
4-2-76

Chap

J. E. Chapple
Collection - do -
C. E. for J. with 31 Orig. Encl.
Ext. P. to 16
Ren. Dept.

Droped = 29-3-76

168-169

Apr 8-3-76

2.

Three sanctions

1592
C. J. [unclear]
[unclear]

The St Engineer
to the [unclear]

13 March 1876 No 6457

108-169

Letters in the [unclear]
Range, [unclear]
Estimates for the [unclear]
of certain — [unclear]